STANDARD EQUIPMENT

- ISO Standard cabin
  - All-weather steel cab with 360° visibility
  - Safety glass windows
  - Rise-up type windshield wiper
  - Sliding fold-in front window
  - Sliding side window(LH)
  - Lockable door
  - Hot & cool box
  - Storage compartment & Ashtray
  - Transparent cabin roof-cover
  - CD/MP3 Player
  - Handsfree mobile phone system with USB
  - Sun visor
- 12 volt power outlet (24V DC to 12V DC converter)
- Computer aided power optimization (New CAPO) system
  - 3-power mode, 2-work mode, User mode
  - Auto deceleration & one-touch deceleration system
  - Auto warm-up system
  - Auto overheat prevention system
- Automatic climate control
  - Air conditioner & heater
  - Defroster
- Self-diagnostics system
- Starting Aid (air grid heater) for cold weather
- Centralized monitoring
  - LCD display
  - Engine speed or Trip meter/Accel.
  - Clock
  - Gauges
  - Fuel level gauge
  - Engine coolant temperature gauge
  - Hyd. oil temperature gauge
  - Warnings
  - Check Engine
  - Communication error
  - Low battery
  - Air cleaner clogging
  - Indicators
  - Power max
  - Fuel warmer
  - Auto idle
- Door and cab locks, one key
- Two outside rearview mirrors
- Mechanical suspension seat with heater
- Pilot-operated slidable joystick
- Console box height adjust system
- Four front working lights
- Electric horn
- Batteries (2 x 12V x 80 AH)
- Battery master switch
- Removable clean-out screen for oil cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter with fuel warmer
- Boom holding system
- Arm holding system
- Counterweight (2,800kg, 6,170lb)
- Track shoes (500mm, 20")
- Track rail guard
- Accumulator for lowering work equipment
- Electric transducer
- Lower frame under cover (Normal)

OPTIONAL EQUIPMENT

- Fuel filler pump (35 L/min)
- Beacon lamp
- Safety lock valve for boom cylinder with overload warning device
- Safety lock valve for arm cylinder
- Single-acting piping kit (breaker, etc.)
- Double-acting piping kit (clamshell, etc.)
- Quick coupler
- Travel alarm
- Arms
  - Super Short arm (1.9 m, 6' 3")
  - Short arm (2.1 m, 6' 11")
  - Long arm (3.0 m, 9' 10")
- Cabin lights
- Cabin front window rain guard
- Track shoes
  - Triple grousers shoe (600mm, 24")
  - Triple grousers shoe (700mm, 28")
- Lower frame under cover (Additional)
- Long crawler lower frame
- Dozer blade
- Tool kit
- Operator suit
- Rearview camera
- Pattern change valve (2 patterns)
- Hi-mate (Remote Management System)

* Standard and optional equipment may vary. Co[illegible] your H[illegible]ndai dealer for more information. The machi[illegible] may v[illegible] ordin[illegible] national standards.
* The photos may include at[illegible]chi[illegible]ts and opt[illegible]al equipment that are not available in your area.
* Materials and specifi[illegible]tions a[illegible] subje[illegible] change without advance notice.
* All imperial measure[illegible]nts rou[illegible]ed off [illegible]he nearest pound or inch.

PLEASE CONTACT

www.hyundai-ce.com 2010. 2 Rev. 0

HYUNDAI HEAVY INDUSTRIES CO.,LTD.
CONSTRUCTION EQUIPMENT

[illegible] Office (Sales Office)
1 JEONHA-DONG, DONG-GU, ULSAN, KOREA **TEL**: (82) 52-202-7970, 7729, 0971 FAX: (82) 52-202-7979, 7720

U.S. Operation: Hyundai Construction Equipment Americas, Inc.
955 ESTES AVENUE, ELK GROVE VILLAGE, IL. 60007, U.S.A. **TEL**: (1) 847-437-3333 FAX: (1) 847-437-3574

European Operation: Hyundai Heavy Industries Europe N.V.
VOSSENDAAL 11, 2440 GEEL, BELGIUM **TEL**: (32) 14-56-2200 FAX: (32) 14-59-3405

India Operation: Hyundai Construction Equipment India Pvt., Ltd.
PLOT NO.A-2, CHAKAN INDUSTRIAL AREA, VILL.- KHALUMBRE. TALUK.- KHED., DIST.- PUNE 410 501, INDIA
TEL: (91) 21-3530-1700 FAX: (91) 21-3530-1712

We build a better future

Robex 145CR-9

With Tier 3 Engine installed

*Photo may include optional equipment.

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

Preference

Operating the R145CR-9 is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.

*Photo may include optional equipment.

Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

Operator Comfort

In the 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences. Seat and console position can be set together and independent from each other. Additional creature comforts include the fully automatic high-capacity airconditioning system and the CD/MP3 radio.

Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series provides improved cab dimensions, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with CD player, AM/FM stereo and MP3 capabilities, plus remotely located controls are perfect for listening to music favorites.
Operators can even talk on the phone with the hands-free cell phone feature.

Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, optional rear-view camera, maintenance check lists, start-up machine security, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.

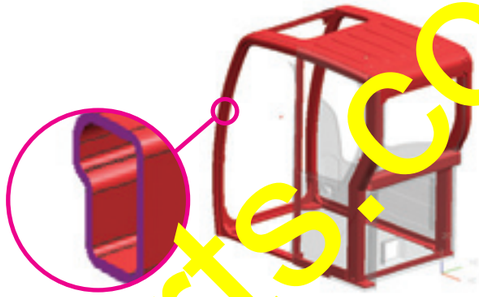
Performance

9 series is designed for maximum performance to keep the operator working productively.

*Photo may include optional equipment.

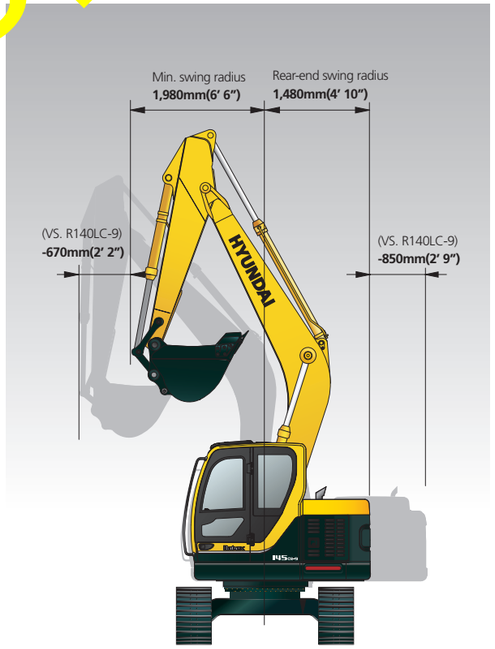
Track Rail Guard & Adjusters

Durable track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



Structure Strength

The 9 series cab structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.



Excellent Performance in Confined Areas

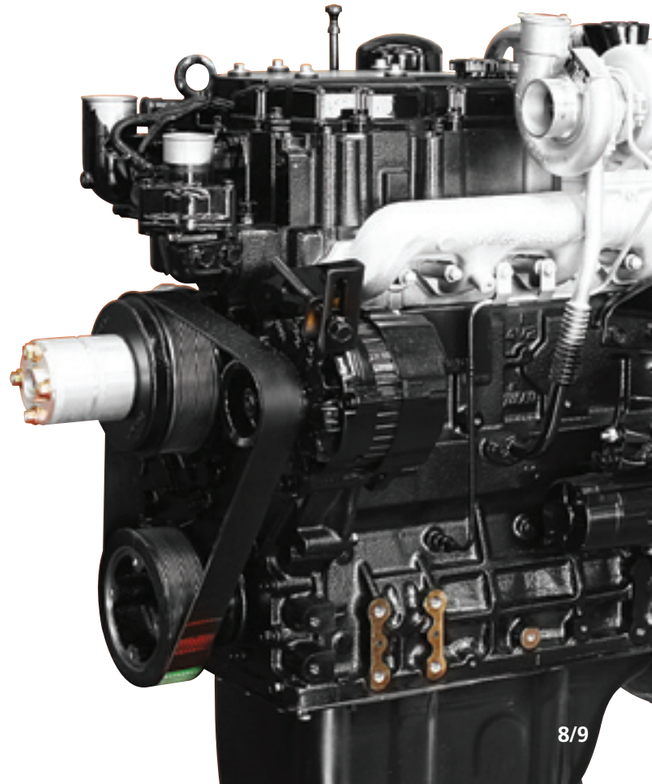
R145CR-9's short (1,480mm) tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This Compact radius design provides easy and efficient operation in any limited space work environment.

Mitsubishi D04FD-TAA

The Tier III, four cylinder, 4 cycle, turbo-charged, charge air cooled, Mitsubishi D04FD-TAA engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

Heavy-duty strength

Everyone who's ever worked on construction equipment knows, there is no substitute for power and durabilty. The D04FD-TAA handles the toughest loads and the roughest work conditions.
At the same time, it delivers better fuel economy, has better cold starting capability and is up to 50% quieter in operation. Plus, the heavy-duty design of the D04FD-TAA engine block and components add reliability and durability you can count on every day, year after year.
Both fuel-efficiency and response are significantly enhanced with the Mitsubishi high pressure common rail fuel system. The system delivers high pressure injection, independent of engine speed, for optimum performance and flexibility at every rpm.



Specifications

ENGINE

MODEL			Mitsubishi D04FD-TAA
Type			Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled
Rated flywheel horse power	SAE	J1995 (gross)	119 HP (89 kW)/ 2,000 rpm
		J1349 (net)	113 HP (85 kW)/ 2,000 rpm
	DIN	6271/1 (gross)	121 PS (89 kW)/ 2,000 rpm
		6271/1 (net)	115 PS (85 kW)/ 2,000 rpm
Max. torque			45.4 kgf·m(328 lbf·ft)/ 1,700 rpm
Bore X stroke			102 x 130 mm (4.0" x 5.1")
Piston			4,250cc (260 in³)
Batteries			2 X 12V X 80AH
Starting motor			24V- 5.0kW
Alternator			24V- 50Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Rated flow	2 X 130L /min (34.3 US gpm / 28.6 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system.

HYDRAULIC MOTORS	
Travel	Two speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,410 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 105 X 1,105 mm (4.1" X 43.5")
	Arm: 115 X 1,138 mm (4.5" X 44.8")
	Bucket: 100 X 840 mm (3.9" X 33.1")
	Blade: 100 X 260 mm (3.9" X 10.2")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	13,300 kgf (29,321 lbf)
Max. travel speed(high) / (low)	5.5 km/hr (3.4 mph) / 3.2 km/hr (2.0 mph)
Gradeability	30° (58 %)
Parking brake	Multi wet disc

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket/
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	12 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	232	61.3	51.0
Engine coolant	14.5	3.8	3.2
Engine oil	17.5	4.6	3.8
Swing device-gear oil	2.5	0.7	0.5
Final drive(each)-gear oil	3.6	1.0	0.8
Hydraulic system(including tank)	180	47.6	39.6
Hydraulic tank	96	25.4	21.1

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X - leg type			
Track frame	Pentagonal box type			
No. of shoes on each side	R145CR-9	45EA	R145LCR-9	47EA
No. of carrier roller on each side		1 EA		2 EA
No. of track roller on each side		7 EA		7 EA
No. of rail guard on each side		2 EA		2 EA

OPERATING WEIGHT (APPROXIMATE)

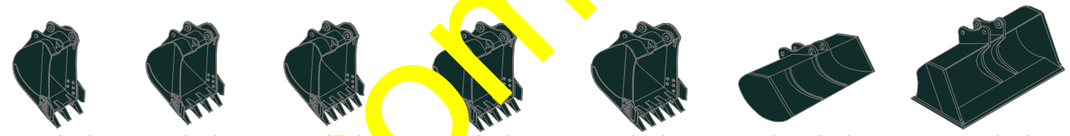
Operating weight, including 4,600mm (15' 1") boom, 2,500mm (8' 2") arm, SAE heaped 0.52m³ (0.68 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	6,950 kg (15,320 lb)
Counterweight	2,700 kg (5,170 lb)
4.6m (15' 1")mono boom(with arm cylinder)	1,030 kg (2,270 lb)

OPERATING WEIGHT				
Shoes			Operating weight	Ground pressure
Type	Width mm(in)		kg(lb)	kgf/cm²(psi)
Triple grouser	500 (20")	R145CR-9	14,600(32,190)	0.46(6.54)
		R145CR-9 (Dozer type)	15,400(33,950)	0.49(6.97)
		R145LCR-9	14,785(32,600)	0.47(6.68)
		R145LCR-9 (Dozer type)	15,585(34,360)	0.49(6.97)
	600 (24")	R145CR-9	14,790(32,610)	0.39(5.55)
		R145CR-9 (Dozer type)	15,610(34,410)	0.41(5.83)
		R145LCR-9	14,980(33,020)	0.40(5.69)
		R145LCR-9 (Dozer type)	15,800(34,830)	0.42(5.97)
	700 (28")	R145CR-9	15,020(33,110)	0.34(4.83)
		R145CR-9 (Dozer type)	15,840(34,920)	0.36(5.12)
		R145LCR-9	15,215(33,540)	0.34(4.83)
		R145LCR-9 (Dozer type)	16,035(35,350)	0.36(5.12)

BUCKETS

All buckets are welded with high-strength steel.



SAE heaped m³ (yd³)	0.23 (0.30)	0.40 (0.52) 0.46 (0.60)	0.52 (0.68) 0.58 (0.76)	0.65 (0.85)	0.71 (0.93)	◉0.45 (0.59)	★ 0.55 (0.72)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft-in) 4,600 (15' 1") Boom			
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		1,900 (6' 3") Arm	2,100 (6' 11") Arm	2,500 (8' 2") Arm	3,000 (9' 10") Arm
0.23 (0.30)	0.20(0.26)	520(20.5)	620(24.4)	335(740)	●	●	●	■
0.40 (0.52)	0.35(0.46)	760(29.9)	860(33.9)	410(900)	●	●	●	■
0.46 (0.60)	0.40(0.52)	850(33.5)	950(37.4)	435(960)	●	●	●	▲
0.52 (0.68)	0.45(0.59)	930(36.8)	1,030(40.8)	460(1,010)	●	●	●	-
0.58 (0.76)	0.50(0.65)	1,030(40.6)	1,130(44.5)	480(1,060)	●	●	■	-
0.65 (0.85)	0.55(0.72)	1,110(43.7)	1,210(47.6)	500(1,100)	■	■	▲	-
0.71 (0.93)	0.60(0.78)	1,210(47.4)	-	540(1,190)	▲	▲	-	-
◉ 0.45 (0.59)	0.40(0.52)	1,520(59.8)	-	410(900)	●	●	■	-
★ 0.55 (0.72)	0.50(0.65)	1,800(70.9)	-	585(1,290)	■	▲	▲	-

◉ Ditch cleaning bucket
★ Slope finishing bucket

● : Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less
■ : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less
▲ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 4.6m(15' 1") boom and 1.9m(6' 3"), 2.1m(6' 11"), 2.5m(8' 2"), 3.0m(9' 10")arms are available.

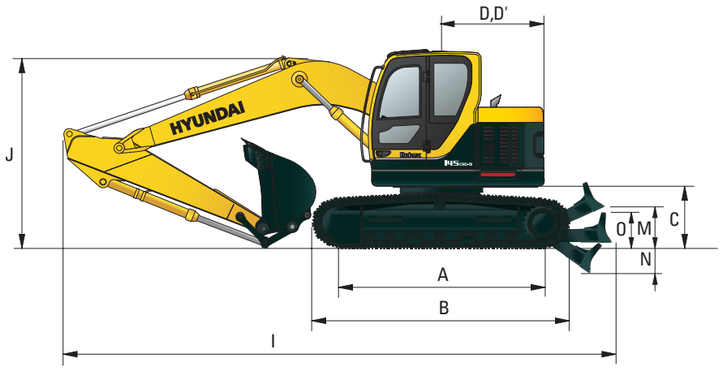
DIGGING FORCE

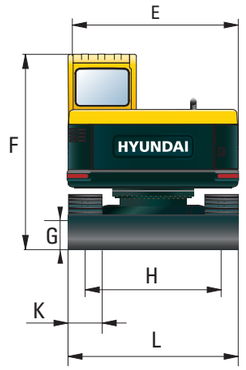
Boom	Length	mm (ft-in)	4,600 (15' 1")				Remarks
	Weight	kg (lb)	1,030 (2,270)				
Arm	Length	mm (ft-in)	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	670 (1,480)	
Bucket digging force	SAE	kN	87.3[94.8]	87.3[94.8]	87.3[94.8]	87.3[94.8]	[ ]: Power Boost
		kgf	8,900[9,660]	8,900[9,660]	8,900[9,660]	8,900[9,660]	
		lbf	19,620[21,300]	19,620[21,300]	19,620[21,300]	19,620[21,300]	
	ISO	kN	102[110.8]	102[110.8]	102[110.8]	102[110.8]	
		kgf	10,400[11,290]	10,400[11,290]	10,400[11,290]	10,400[11,290]	
		lbf	22,930[24,890]	22,930[24,890]	22,930[24,890]	22,930[24,890]	
Arm crowd force	SAE	kN	76.5[83.1]	73.6[79.9]	62.8[68.2]	55.9[60.7]	
		kgf	7,800[8,470]	7,500[8,140]	6,400[6,950]	5,700[6,190]	
		lbf	17,200[18,670]	16,530[17,950]	14,110[15,320]	12,570[13,640]	
	ISO	kN	80.4[87.3]	77.5[84.1]	65.7[71.4]	57.9[62.8]	
		kgf	8,200[8,900]	7,900[8,580]	6,700[7,270]	5,900[6,410]	
		lbf	18,080[19,630]	17,420[18,910]	14,770[16,040]	13,010[14,120]	

Note: Boom weight includes arm cylinder, piping, and pin
Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R145CR-9 (DOZER TYPE) DIMENSIONS





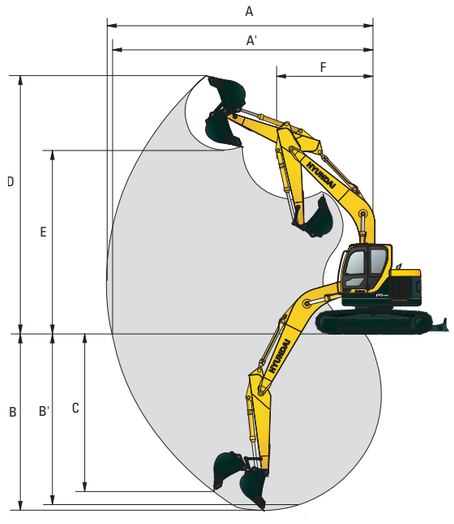
mm (ft·in)

A	Tumbler distance	2,910 (9′ 7″)
B	Overall length of crawler	3,640 (11′ 11″)
C	Ground clearance of counterweight	930 (3′ 1″)
D	Tail swing radius	1,480 (4′ 10″)
D′	Rear-end length	1,480 (4′ 10″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	2,000 (6′ 7″)
M	Ground clearance of blade up	420 (1′ 8″)
N	Depth of blade down	430 (1′ 6″)
O	Height of blade	575 (1′ 8″)

	Boom length	4,600(15′ 1″)			
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)
I	Overall length	7,840 (25′ 9″)	7,860 (25′ 9″)	7,820 (25′ 8″)	7,760 (25′ 6″)
J	Overall height of boom	2,630 (8′ 8″)	2,710 (8′ 11″)	2,860 (9′ 5″)	3,210 (10′ 6″)

K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,500 (8′ 2″)	2,600 (8′ 6″)	2,700 (8′ 10″)

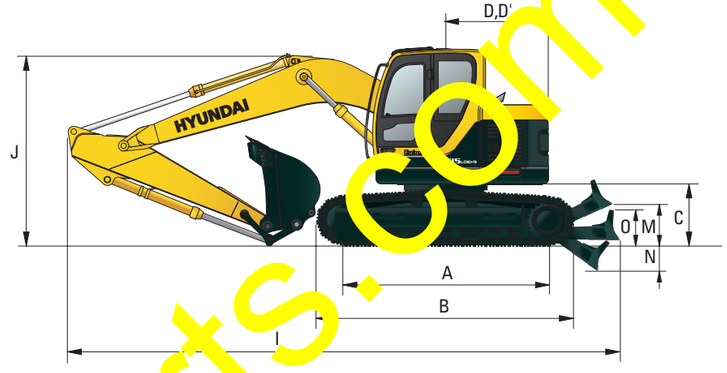
R145CR-9 (DOZER TYPE) WORKING RANGE

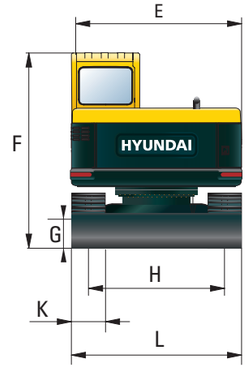


	Boom length	4,600(15′ 1″)			
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)
A	Max. digging reach	7,730 (25′ 4″)	7,900 (25′ 11″)	8,310 (27′ 3″)	8,770 (28′ 9″)
A′	Max. digging reach on ground	7,580 (24′ 10″)	7,750 (25′ 0″)	8,170 (26′ 10″)	8,630 (28′ 4″)
B	Max. digging depth	4,890 (16′ 1″)	5,100 (16′ 9″)	5,500 (18′ 1″)	5,990 (19′ 8″)
B′	Max. digging depth (8′ level)	4,640 (15′ 3″)	4,870 (16′ 0″)	5,290 (17′ 4″)	5,810 (19′ 1″)
C	Max. vertical wall digging depth	4,400 (14′ 5″)	4,600 (15′ 1″)	5,000 (16′ 5″)	5,400 (17′ 9″)
D	Max. digging height	8,840 (29′ 0″)	8,970 (29′ 5″)	9,350 (30′ 8″)	9,730 (31′ 11″)
E	Max. dumping height	6,350 (20′ 10″)	6,470 (21′ 3″)	6,850 (22′ 6″)	7,230 (23′ 9″)
F	Min. swing radius	1,860 (6′ 1″)	2,030 (6′ 8″)	1,980 (6′ 6″)	2,260 (7′ 5″)

Dimensions & Working Range

R145LCR-9 (DOZER TYPE) DIMENSIONS





mm (ft·in)

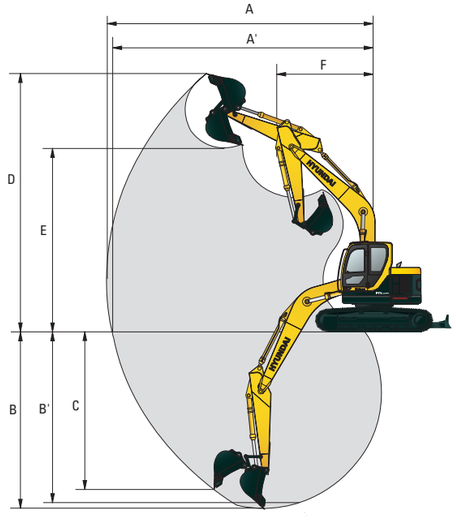
A	Tumbler distance	3,090 (10′ 2″)
B	Overall length of crawler	3,820 (12′ 6″)
C	Ground clearance of counterweight	930 (3′ 1″)
D	Tail swing radius	1,480 (4′ 10″)
D′	Rear-end length	1,480 (4′ 10″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	2,000 (6′ 7″)
M	Ground clearance of blade up	420 (1′ 8″)
N	Depth of blade down	430 (1′ 6″)
O	Height of blade	575 (1′ 8″)

	Boom length	4,600(15′ 1″)			
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)
I	Overall length	7,840 (25′ 9″)	7,860 (25′ 9″)	7,820 (25′ 8″)	7,760 (25′ 6″)
J	Overall height of boom	2,630 (8′ 8″)	2,710 (8′ 11″)	2,860 (9′ 5″)	3,210 (10′ 6″)

K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,500 (8′ 2″)	2,600 (8′ 6″)	2,700 (8′ 10″)

R145LCR-9 (DOZER TYPE) WORKING RANGE

mm (ft·in)



	Boom length	4,600(15′ 1″)			
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)
A	Max. digging reach	7,730 (25′ 4″)	7,900 (25′ 11″)	8,310 (27′ 3″)	8,770 (28′ 9″)
A′	Max. digging reach on ground	7,580 (24′ 10″)	7,750 (25′ 0″)	8,170 (26′ 10″)	8,630 (28′ 4″)
B	Max. digging depth	4,890 (16′ 1″)	5,100 (16′ 9″)	5,500 (18′ 1″)	5,990 (19′ 8″)
B′	Max. digging depth (8′ level)	4,640 (15′ 3″)	4,870 (16′ 0″)	5,290 (17′ 4″)	5,810 (19′ 1″)
C	Max. vertical wall digging depth	4,400 (14′ 5″)	4,600 (15′ 1″)	5,000 (16′ 5″)	5,400 (17′ 9″)
D	Max. digging height	8,840 (29′ 0″)	8,970 (29′ 5″)	9,350 (30′ 8″)	9,730 (31′ 11″)
E	Max. dumping height	6,350 (20′ 10″)	6,470 (21′ 3″)	6,850 (22′ 6″)	7,230 (23′ 9″)
F	Min. swing radius	1,860 (6′ 1″)	2,030 (6′ 8″)	1,980 (6′ 6″)	2,260 (7′ 5″)

Lifting Capacity

R145CR-9 (DOZER TYPE)

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*3270	*3270			3660	2270	5.75
(20.0 ft)	lb					*7210	*7210			8070	5000	(18.9)
4.5 m	kg			*4960	*4960	*4310	3440			2750	1660	6.73
(15.0 ft)	lb			*10930	*10930	*9500	7580			6060	3660	(22.1)
3.0m	kg			*7230	6310	*5000	3240	3260	1980	2390	1410	7.22
(10.0 ft)	lb			*15940	13910	*11020	7140	7190	4370	5270	3110	(23.7)
1.5 m	kg			*9120	5560	5040	2990	3160	1890	2290	1330	7.32
(5.0 ft)	lb			*20110	12260	11110	6590	6970	4170	5050	2930	(24.0)
Ground	kg			*8610	5300	4850	2820	3080	1810	2400	1400	7.06
Line	lb			*18980	11680	10690	6220	6790	3990	5290	3090	(23.2)
-1.5 m	kg	*6830	*6830	*8140	5300	4790	2770			2820	1660	6.40
(-5.0 ft)	lb	*15060	*15060	*17950	11680	10560	6110			6220	3660	(21.0)
-3.0 m	kg			*6010	5440	*4100	2840			*2250	*2250	5.12
(-10.0 ft)	lb			*13250	11990	*9040	6260			*4960	*4960	(16.8)

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*3440	*3440			3440	2130	5.98
(20.0 ft)	lb					*7580	*7580			7580	4700	(19.6)
4.5 m	kg			*4390	*4390	*4140	3460	*2560	2040	2620	1580	6.92
(15.0 ft)	lb			*9680	*9680	*9130	7630	*5640	4500	5780	3480	(22.7)
3.0m	kg			*6870	6370	*4840	3250	3270	1980	2290	1350	7.39
(10.0 ft)	lb			*15150	14040	*10670	7170	7210	4370	5050	2980	(24.2)
1.5 m	kg			*9010	5600	5040	2990	3160	1880	2190	1270	7.49
(5.0 ft)	lb			*19860	12350	11110	6590	6970	4140	4830	2800	(24.6)
Ground	kg			*8870	5270	4830	2800	3060	1790	2290	1320	7.24
Line	lb			*19550	11620	10650	6170	6750	3950	5050	2910	(23.8)
-1.5 m	kg	*6560	*6560	*8340	5240	4750	2740	3030	1760	2660	1550	6.60
(-5.0 ft)	lb	*14460	*14460	*18390	11550	10470	6040	6680	3880	5860	3420	(21.7)
-3.0 m	kg	*9060	*9060	*6360	5360	*4350	2790			*2390	2220	5.38
(-10.0 ft)	lb	*19970	*19970	*14020	11820	*9590	6150			*5270	4890	(17.7)

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*2960	*2960			*2910	1820	6.50
(20.0 ft)	lb					*6530	*6530			*6420	4010	(21.3)
4.5 m	kg					*3460	*3460	*2670	2060	2340	1380	7.37
(15.0 ft)	lb					*7630	*7630	*5890	4540	5160		(24.2)
3.0m	kg			*6090	*6090	*4480	3280	3270	1980	2070	1190	
(10.0 ft)	lb			*13430	*13430	*9880	7230	7210	4370	4560	2620	
1.5 m	kg			*8480	5720	5060	3000	3150	1860	1980		7.5
(5.0 ft)	lb			*18700	12610	11160	6610	6940	4100	4370	2470	(25.9)
Ground	kg			*9170	5260	4810	2780	3030	1760	2	11	7.67
Line	lb			*20220	11600	10600	6130	6680	3880	40	2560	(25.2)
-1.5 m	kg	*5850	*5850	*8700	5160	4700	2680	2980	1710	350	1340	7.07
(-5.0 ft)	lb	*12900	*12900	*19180	11380	10360	5910	6570	3770	80	2950	(23.2)
-3.0 m	kg	*8930	*8930	*7030	5230	4720	2700			*	1830	5.97
(-10.0 ft)	lb	*19690	*19690	*15500	11530	10410	5950			*529	4030	(19.6)
-4.5 m	kg			*3750	*3750							
(-15.0 ft)	lb			*8270	*8270							

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grous with 2, 00kg (6, lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (.0 ft)		At max. reach Capacity		Reach
														m (ft)
6.0 m	kg					*2560	*2560	*1730	*1730			2570	1560	7.07
(20.0 ft)	lb					*5640	*5640	*3810	2 10			5670	3440	(23.2)
4.5 m	kg					*2760	*2760	*255	2			2090	1220	7.86
(15.0 ft)	lb					*6080	*6080	*	465			4610	2690	(25.8)
3.0m	kg			*3690	*3690	*3690	3360	*32	202	*1430	1280	1860	1050	8.27
(10.0 ft)	lb			*8140	*8140	*8140	7410	*7080	44	*3150	2820	4100	2310	(27.1)
1.5 m	kg			*7740	5950	*5030	2070	3170	50	*1990	1230	1790	990	8.36
(5.0 ft)	lb			*17060	13120	*11090	90	70	170	*4390	2710	3950	2180	(27.4)
Ground	kg			*9180	5360	4850	2	3	0	*1830	1180	1850	1020	8.14
Line	lb			*20240	11820	10690	6220	6700	3950	*4030	2600	4080	2250	(26.7)
-1.5 m	kg	*5380	*5380	*8930	5160	4700	2680	2960	1690			2070	1160	7.59
(-5.0 ft)	lb	*11860	*11860	*19690	11380	360	10	0	3730			4560	2560	(24.9)
-3.0 m	kg	*7860	*7860	*7790	5170	0	2	2960	1690			*2460	1520	6.59
(-10.0 ft)	lb	*17330	*17330	*17170	11400	103	5840	6530	3730			*5420	3350	(21.6)
-4.5 m	kg	*8050	*8050	*5160	*5160	*3260	2770							
(-15.0 ft)	lb	*17750	*17750	*11380	*11380	*7190	6110							

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R145LCR-9 (DOZER TYPE)

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Sh mm(20″) le grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		5 m (15.0		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					70	*3270			*3720	2300	5.75
(20.0 ft)	lb					*7	*7210			*8200	5070	(18.9)
4.5 m	kg			*4960	*49	*4	3480			2960	1680	6.73
(15.0 ft)	lb			*10930	930	00	7670			6530	3700	(22.1)
3.0m	kg			*7230	6370	5000	3280	3530	2000	2580	1430	7.22
(10.0 ft)	lb			*15940	14040	*11020	7230	7780	4410	5690	3150	(23.7)
1.5 m	kg			*9120	5630	5490	3030	3430	1910	2480	1360	7.32
(5.0 ft)	lb			*20110	12410	12100	6680	7560	4210	5470	3000	(24.0)
Ground	kg			*8610	53	5300	2860	3340	1840	2600	1420	7.06
Line	lb			*18980	11840	11680	6310	7360	4060	5730	3130	(23.2)
-1.5 m	kg	*6830	*6830	*8140	5370	5240	2810			3050	1680	6.40
(-5.0 ft)	lb	*15060	*15060	*17950	11840	11550	6190			6720	3700	(21.0)
-3.0 m	kg			*13	5510	*4100	2880			*2250	*2250	5.12
(-10.0 ft)	lb			*132	12150	*9040	6350			*4960	*4960	(16.8)

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*3440	*3440			*3550	2160	5.98
(20.0 ft)	lb					*7580	*7580			*7830	4760	(19.6)
4.5 m	kg			*4390	*4390	*4140	3500	*2560	2070	2830	1600	6.92
(15.0 ft)	lb			*9680	*9680	*9130	7720	*5640	4560	6240	3530	(22.7)
3.0m	kg			*6870	6440	*4840	3290	3530	2010	2480	1370	7.39
(10.0 ft)	lb			*15150	14200	*10670	7250	7780	4430	5470	3020	(24.2)
1.5 m	kg			*9010	5670	5490	3030	3420	1900	2380	1290	7.49
(5.0 ft)	lb			*19860	12500	12100	6680	7540	4190	5250	2840	(24.6)
Gro d	kg			*8870	5340	5280	2840	3320	1820	2480	1340	7.24
Lin	lb			*19550	11770	11640	6260	7320	4010	5470	2950	(23.8)
- .5 m	kg	*6560	*6560	*8340	5310	5200	2770	3290	1790	2880	1580	6.60
(-5.0 ft)	lb	*14460	*14460	*18390	11710	11460	6110	7250	3950	6350	3480	(21.7)
-3.0 m	kg	*9060	*9060	*6360	5430	*4350	2820			*2390	2250	5.38
(-10.0 ft)	lb	*19970	*19970	*14020	11970	*9590	6220			*5270	4960	(17.7)

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		At max. reach Capacity		Reach
												m (ft)
6.0 m	kg					*2960	*2960			*2910	1840	6.50
(20.0 ft)	lb					*6530	*6530			*6420	4060	(21.3)
4.5 m	kg					*3460	*3460	*2670	2090	2530	1400	7.37
(15.0 ft)	lb					*7630	*7630	*5890	4610	5580	3090	(24.2)
3.0m	kg			*6090	*6090	*4480	3320	3540	2010	2240	1210	7.81
(10.0 ft)	lb			*13430	*13430	*9880	7320	7800	4430	4940	2670	(25.6)
1.5 m	kg			*8480	5780	*5360	3040	3410	1890	2150	1140	7.90
(5.0 ft)	lb			*18700	12740	*11820	6700	7520	4170	4740	2510	(25.9)
Ground	kg			*9170	5330	5260	2820	3300	1790	2230	1180	7.67
Line	lb			*20220	11750	11600	6220	7280	3950	4920	2600	(25.2)
-1.5 m	kg	*5850	*5850	*8700	5230	5150	2720	3240	1740	2550	1370	7.07
(-5.0 ft)	lb	*12900	*12900	*19180	11530	11350	6000	7140	3840	5620	3020	(23.2)
-3.0 m	kg	*8930	*8930	*7030	5300	*4770	2740			*2400	1860	5.97
(-10.0 ft)	lb	*19690	*19690	*15500	11680	*10520	6040			*5290	4100	(19.6)
-4.5 m	kg			*3750	*3750							
(-15.0 ft)	lb			*8270	*8270							

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius 1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		At max. reach Capacity		Reach
														m (ft)
6.0 m	kg					*2560	*2560	*1730	*1730			*2600	1580	7.07
(20.0 ft)	lb					*5640	*5640	*3810	*3810			*5730	3480	(23.2)
4.5 m	kg					*2760	*2760	*2550	2140			2260	1240	7.86
(15.0 ft)	lb					*6080	*6080	*5620	4720			4980	2730	(25.8)
3.0m	kg			*3690	*3690	*3690	3400	*3210	2040	*1430	1300	2020	1070	8.27
(10.0 ft)	lb			*8140	*8140	*8140	7500	*7080	4500	*3150	2870	4450	2360	(27.1)
1.5 m	kg			*7740	6020	*5030	3110	3440	1910	*1990	1250	1950	1010	8.36
(5.0 ft)	lb			*17060	13270	*11090	6860	7580	4210	*4390	2760	4300	2230	(27.4)
Ground	kg			*9190	5430	5310	2860	3300	1790	*1830	1200	2010	1040	8.14
Line	lb			*20260	11970	11710	6310	7280	3950	*4030	2650	4430	2290	(26.7)
-1.5 m	kg	*5380	*5380	*9060	5220	5140	2720	3220	1720			2250	1180	7.59
(-5.0 ft)	lb	*11860	*11860	*19970	11510	11330	6000	7100	3790			4960	2600	(24.9)
-3.0 m	kg	*7860	*7860	*7790	5240	5120	2690	3220	1720			*2460	1540	6.59
(-10.0 ft)	lb	*17330	*17330	*17170	11550	11290	5930	7100	3790			*5420	3400	(21.6)
-4.5 m	kg	*8050	*8050	*5160	*5160	*3260	2810							
(-15.0 ft)	lb	*17750	*17750	*11380	*11380	*7190	6190							

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.